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(54) **Touch system and recognition method**

(57) A touch system including a touch panel and a readout circuit is disclosed. The touch panel is integrated with a plurality of photosensitive elements within pixel elements, and capable of displaying at least touch position by at least an optical inputting. The touch panel provides a signal data when the touch panel is touched. The readout circuit is configured to receive the signal data and includes a transformation unit and a processing unit. The transformation unit generates a signal value based on the signal data and a transformation parameter. The processing unit executes a specific action when the signal value is less than a preset value.

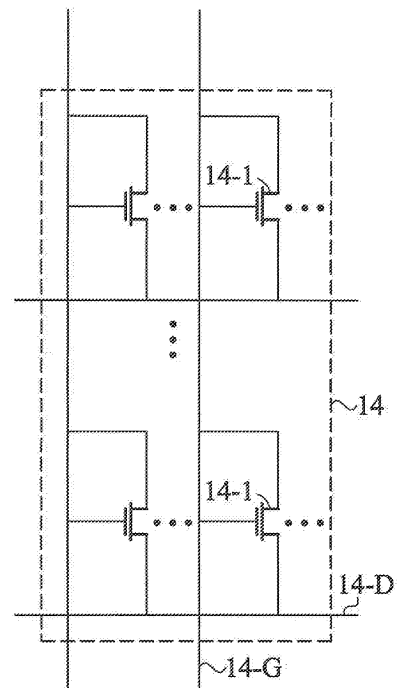


FIG. 1

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 177 946 A2 (AU OPTRONICS CORP [TW]) 21 April 2010 (2010-04-21)	7,9,12, 13,15	INV. G06F3/041
Y	* paragraph [0009] *	1-3,6	G06F3/042
A	* paragraph [0027] - paragraph [0030] * * paragraph [0033] - paragraph [0035]; figures 1-3 *	4,5,8, 10,11,14	

X	US 2010/201275 A1 (COK ET AL) 12 August 2010 (2010-08-12)	7,9,12, 15	
A	* paragraph [0019] * * paragraph [0045] * * paragraph [0051] - paragraph [0053] * * paragraph [0059] - paragraph [0064]; figures 4,6,11 *	1-6,8, 10,11, 13,14	

Y	US 2007/296685 A1 (KANG ET AL) 27 December 2007 (2007-12-27) * paragraph [0047] - paragraph [0082]; figures 4,5A-5C,7 *	1-3,6	

A	WO 2005/104075 A2 (CAMBRIDGE DISPLAY TECH. LTD.) 3 November 2005 (2005-11-03) * page 7, line 23 - page 8, line 13 * * page 10, line 1 - page 15, line 16; figures 3a-4 *	1-15	TECHNICAL FIELDS SEARCHED (IPC)

A	US 2010/001978 A1 (LYNCH ET AL) 7 January 2010 (2010-01-07) * paragraph [0025] * * paragraph [0026] * * paragraph [0041] - paragraph [0043] * * paragraph [0059] - paragraph [0061]; figures 1,8 *	1-15	G06F G02F H01L G09G

The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 17 May 2013	Examiner Taylor, Paul
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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The members are as contained in the European Patent Office EDP file on
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17-05-2013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2177946 A2	21-04-2010	CN 101634764 A	27-01-2010
		EP 2177946 A2	21-04-2010
		JP 2010097608 A	30-04-2010
		TW 201015406 A	16-04-2010
		US 2010090996 A1	15-04-2010
US 2010201275 A1	12-08-2010	CN 102379002 A	14-03-2012
		EP 2394262 A1	14-12-2011
		JP 2012517618 A	02-08-2012
		KR 20110121621 A	07-11-2011
		US 2010201275 A1	12-08-2010
		WO 2010091380 A1	12-08-2010
US 2007296685 A1	27-12-2007	KR 20070121915 A	28-12-2007
		US 2007296685 A1	27-12-2007
WO 2005104075 A2	03-11-2005	GB 2429107 A	14-02-2007
		WO 2005104075 A2	03-11-2005
US 2010001978 A1	07-01-2010	US 2010001978 A1	07-01-2010
		WO 2010002900 A2	07-01-2010

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82